



# Web-based Condition Reporting System





## Airport Information

- Northwest Airlines (DC9's)
- Northwest Airlinks (Mesaba SAAB 340 and Pinnacle CRJ)
- Federal Express (727's and C208's)



## Airport Information

- ATCT during air carrier ops
- Operations staff 12
- Maintenance staff 3
- Two air carrier runways one GA
  - -7349 x150
  - -4206 x100 3900 x75





### **Evolution**

- Fax-based system
- Web-based system





## Fax-based System

- Slow
- Backup System





- Goals
  - Simplify (Data entry end user)
  - Timely
  - Paper-less backup

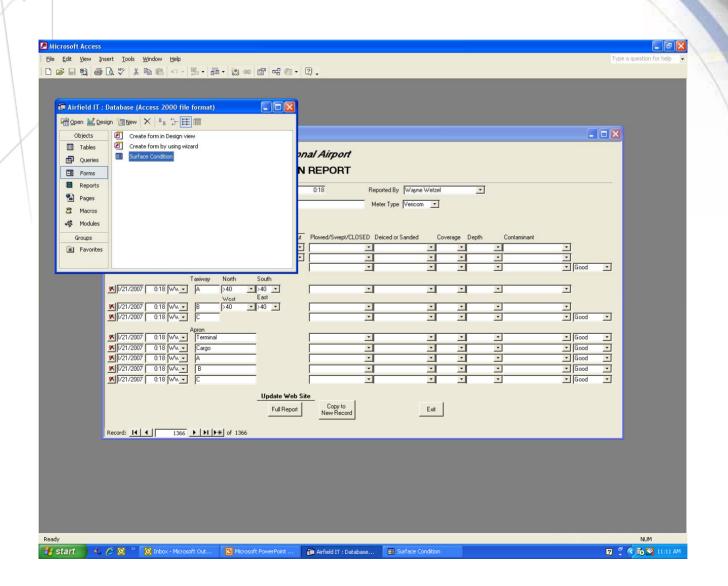




- Simplify
  - MS Access database
  - Defined data fields or free form
  - Straight-forward end user form
  - Printable (single page) by end user

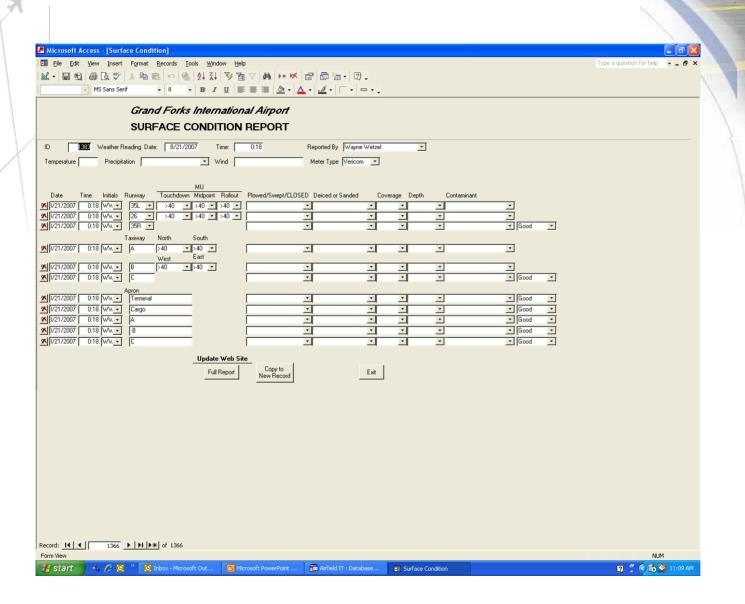
#### GER Grand Forks International Airport





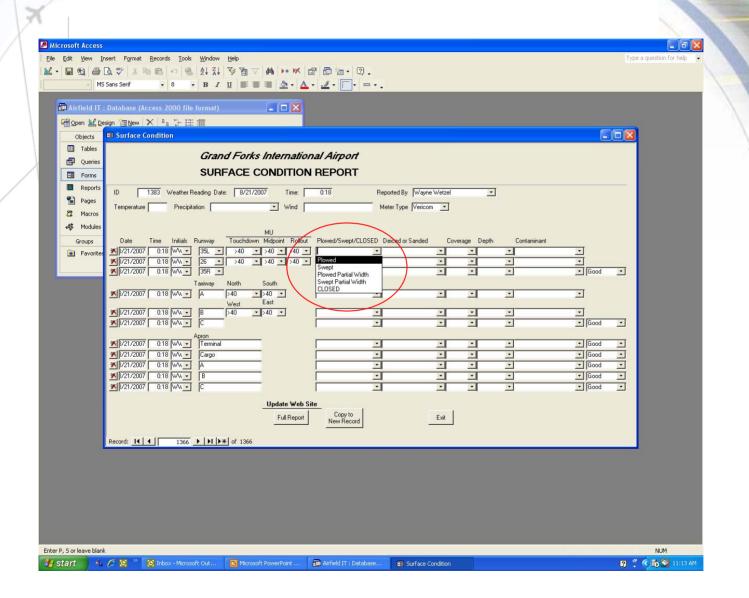
#### Grand Forks International Airport





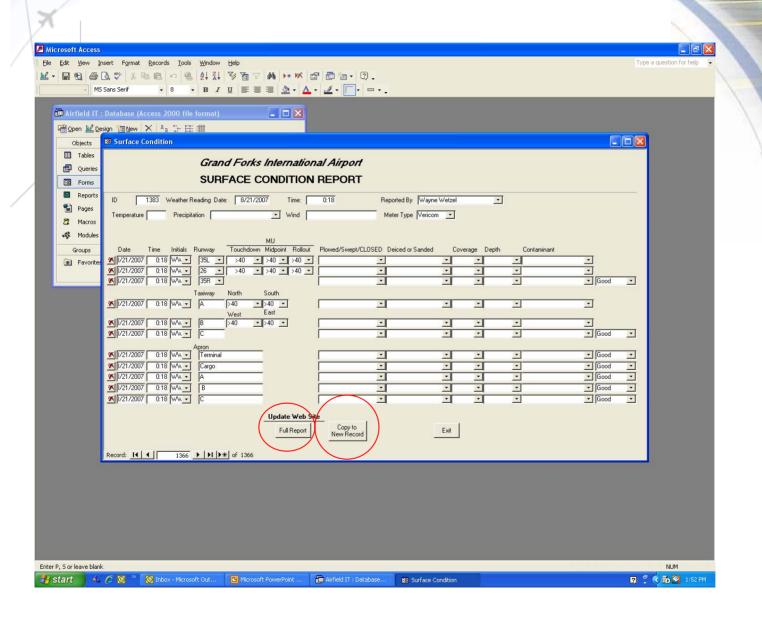
#### Grand Forks International Airport





#### Grand Forks International Airport







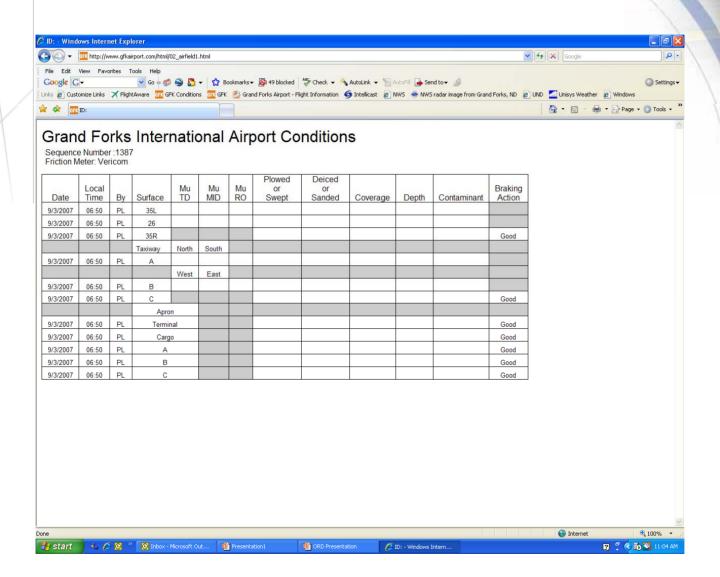


- Paper-less backup
  - MS Access auto-save
  - Server based database
  - Data Query Retrieval / Print

Surface Condition Grand Forks International Airport SURFACE CONDITION REPORT ID Weather Reading Date: 2/17/2006 4:00 Reported By Mike Peterson Temperature -32c Wind 280@11 Meter Type | Vericom | V Precipitation MU Touchdown Midpoint Rollout Plowed/Swept/CLOSED Deiced or Sanded Coverage Depth Date Time Initials Runway Contaminant 35L y >40 y >40 y >40 × 26 V >40 y >40 
y >40 
y →40 
y →4 Y V V V 35R 💌 \* ¥ Y Taxiway North South A >40 y >40 
y × ٧ > × V East West >40 >40 ٧ < \* C ¥ ٧ ¥ Good Apron Terminal Patchy V Thin Packed Snow ▼ Good V Patchy V Thin Packed Snow ✓ Good Cargo \* A × Patchy V Thin Packed Snow ✓ Good ✓ Patchy ✓ Thin В Packed Snow ✓ Good ^ C ٧ Patchy V Thin Packed Snow Good **Update Web Site** Copy to New Full Report Exit Record ecord: |◀ | 4 | 1 of 1417 | ▶ |▶| | ▶| o Filter Search

#### GER Grand Forks International Airport









Timely dissemination

http://www.gfkairport.com/html/02\_airfield1.html





- Future
  - Vehicle wireless laptop
  - Web-based NOTAM system?





Richard G. Audette
Operations & Maintenance Manager
(701)795-6978
raudette@gfkairport.com



#### GENERAL AIRPORT INFO.

- 5 Commercial Airlines
  - Allegiant
  - Northwest/Mesaba
  - American Eagle
  - Delta Connection
  - Continental Connection
- 24/7 ATCT
- Commercial service, Cargo, and Military Operations

### SNOW REMOVAL STAFFING

- Staffing for Field Condition Reporting
  - Director of Operations
  - Operations Manager
  - Maintenance Manager

#### CREATING SYSTEM

- Researched airports in the region
- Brainstormed within our organization
- Vision for the future
- DRACONI AIRS
- Implementation

## TRANSMISSION of SNOTAM/FIELD REPORTS

#### Previously

- Manger on duty compiled field info.
- Contacted ATCT
- Office to type out NOTAM
- Faxed NOTAM to PSO
- PSO called Flight Service
- PSO faxed NOTAM to tenants
- PSO logged NOTAM

#### CONT...

#### Currently

- Manager on duty completes field check
- Contacts ATCT
- Creates NOTAM/SNOTAM on phone
- NOTAM/SNOTAM appears on web page
- Flight Services called and documented

## TRANSMITTING METHOD

#### Blackberry and Smart phone





## SYSTEM DEVELOPMENT

#### DRACONI AIRS

- Local company
- Pricing
  - Ranging from 10-20K plus cost of equipment
  - Varies depending upon equip. already in place

#### FEEDBACK

- Air Carriers
  - Subtle at first
  - Implemented monitors/hard-drives in OPS office
- FAA
  - Very Impressed
  - Easy to read
- Tenants
  - Happy with quick information dissemination

## SYSTEM ACCESS

- Administration Access
  - Only MGMT. has password and access rights
  - Every function can be limited per employee
  - Password protected

## SYSTEM BACK-UP

- Dual system server
  - All data written to Server "A" copied to Server "B"
  - Network backed-up daily to CD

#### BATCH PRINTING

- Eliminates the paper trail
- Automatically maintains NOTAM log
- Sequential numbering 1-100 etc...
- Choose dates to batch print
  - Ex. Oct 10<sup>th</sup> 2007 Oct 10<sup>th</sup> 2008

## KNOWN ISSUES WITH OUR PAST NOTAM PROCESS

NOTAM		NO:	Date:	
		Туре:	Hours:	Eastern Time
Toledo Express Airport, Toledo Ohio [KTOL]				
The Following Surface Conditions Are In Effect Until Further Notice				
RUNWAY 7-25				
CONDITION				
MU Reading				
RUNWAY 16-34				
CONDITION				
MU Reading				
TAXIWAYS				
Α				
В				
D				
N				
Commercial Ramp	1			
GA West Ramp				
BAX Ramp				
Additional Info				
SURFACE CONDITIONS CHECKED WITH NO CHANGE				
Time:				
Employee:				
Faxed Time:				
(419) 865-2352 Fax (419)-865-1903 Signed:  Authorized Port Authority Employee				

- Must be hand written & filled out.
- Must be faxed to multiple recipients.
- Lost often, problems with faxing / receiving.
- Difficult to keep records, history, and archive.
- Time consuming to update and manage.
- Delayed updates of crucial information.

## WEB-BASED SYSTEM

Preview